

Units of measurement

*Metres

*Litres

*Centimetres

*millilitres

*millimetres

*grams

*Kilometres

*milligrams

*Length

*height

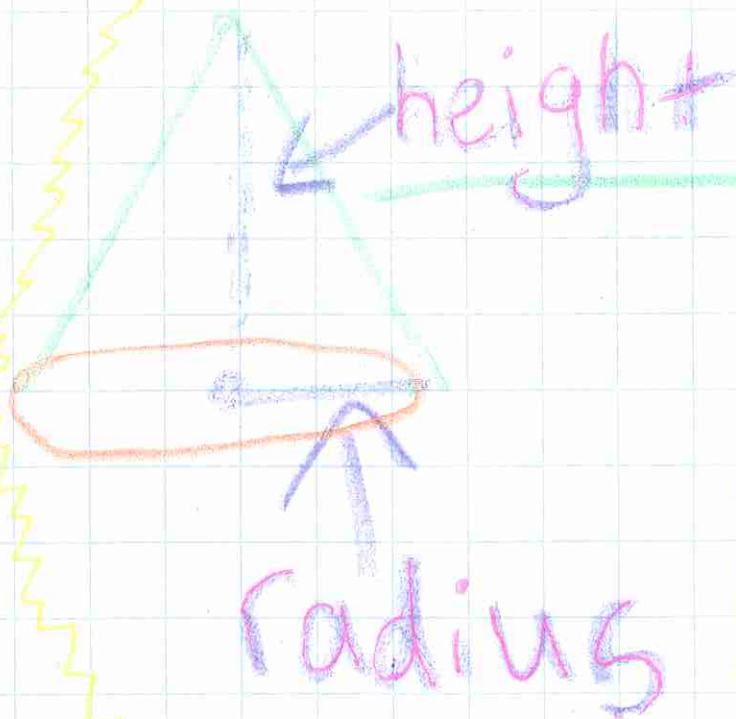
VOLUME

WHAT IS IT?

Volume is how much is inside a 3D shape.

You ~~cannot~~ measure the volume of a 2D shape.

EG. 14 cm^3

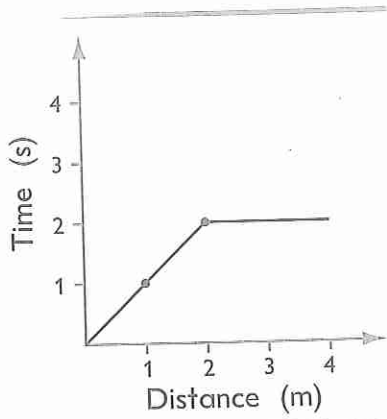


VOLUME OF A CONE =

$$\frac{1}{3} \pi r^2 h =$$

$$\frac{1}{3} \times 3.142 \times r \text{ squared} \times \text{height}$$

$$\pi = 3.142$$



Mean: $1+2+2=5$ $5 \div 3 = 1.2$

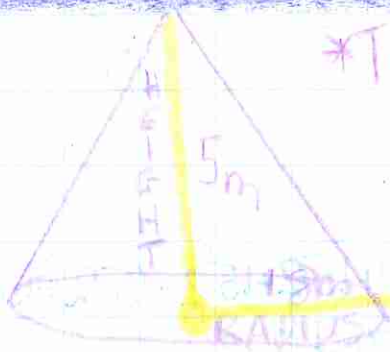
Median: 1, 2, 2

Mode: 1, 2, 2 2

Time	Temperature (°C)
9:00 a.m.	15
10:00 a.m.	16
11:00 a.m.	18
12:00 p.m.	22
1:00 p.m.	25
2:00 p.m.	27
3:00 p.m.	28

Mean: $15+16+18+22+25+27+28=151$
 $151 \div 7 = 21.571428$

1.

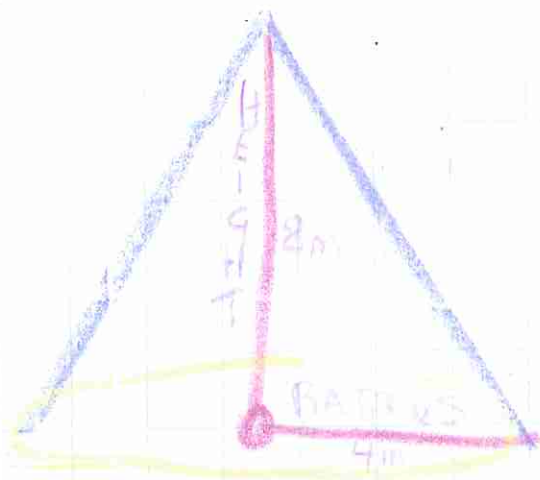


*The height is 5m

*The radius is 1.8m

$$\begin{aligned}
 V &= 0.33 \times 3.142 \times 1.8^2 \times 5 \\
 &= 0.33 \times 3.142 \times 3.24 \times 5 \\
 &= 1679.7132 \\
 &= 1679.7 \text{ m}^2 \\
 8 \times 13437.705 \\
 &= 13437.8 \text{ m}^3
 \end{aligned}$$

2.



$$\begin{aligned}
 V &= 0.33 \times 3.142 \times (4^2) \times 8 \\
 &= 0.33 \times 3.142 \times 16 \times 8 \\
 &= 132.7 \text{ m}^3
 \end{aligned}$$